

S P R U S

Elevating Utility Operations with

DRONE-POWERED PRECISION

SMART. SAFE. EFFICIENT

The Future of Utility Inspections Starts Here.



AERIAL PRODUCTION
SERVICES, INC.

Why Sparus Holdings?

With its legacy of innovation and field expertise, **Sparus and Aerial Production Services Inc. (APS)** are proud to offer state-of-the-art drone-based services tailored to the unique needs of natural gas and electric utilities. Drone-powered solutions are particularly effective in areas such as **bridge pipeline inspections** and **high-voltage tower assessments**, where traditional methods often involve high costs, safety risks, and operational inefficiencies. Equipped with advanced sensors and technologies, drones deliver high-resolution images, thermal and optical video, and LiDAR point clouds, enabling utilities to optimize asset management and meet evolving regulatory demands.



Comprehensive Drone Solutions for Utilities

Pipeline Inspection & Monitoring

- Conduct aerial surveys of pipeline rights-of-way (ROWs) to detect encroachments, vegetation growth, and environmental risks.
- Inspect bridge-mounted pipelines without requiring personnel to access hazardous locations.
- Monitor pipeline signage, ground erosion, and pipeline conditions for proactive maintenance.

Advanced Leak Detection & Emissions Monitoring

- Identify methane emissions using Tunable Diode Laser Absorption Spectroscopy (TDLAS) and Optical Gas Imaging (OGI).
- Provide precise GPS-mapped leak reports for quick response and mitigation.
- Perform routine surveys and emergency response for leak detection.

Right-of-Way (ROW) Management & Regulatory Compliance

- Detect and assess potential risks such as soil erosion, landslides, and encroachment.
- Utilize LiDAR mapping to track environmental changes and ensure compliance.
- Maintain records for regulatory reporting and safety inspections.

Storm Response & Emergency Assessments

- Rapidly assess damage to pipelines and powerlines following storms and natural disasters.
- Support emergency response teams with real-time aerial insights.
- Reduce risk by using drones in hazardous environments where ground crews face challenges.

Asset Digitization & Infrastructure Mapping

- Capture high-resolution LiDAR point clouds, thermal imaging, and RTK GPS data.
- Develop digital twins of assets for advanced monitoring and maintenance planning.
- Integrate drone-collected data with GIS for seamless infrastructure management.

Electric Utility Infrastructure Inspections

- Conduct powerline and transmission tower assessments using thermal and high-resolution imaging.
- Monitor substations, insulators, and conductors for structural integrity and performance.
- Detect vegetation encroachment to prevent outages and improve service reliability.

The Sparus Advantage

Innovation

Leveraging cutting-edge LiDAR, thermal, and high-resolution imaging technology.

Safety

Reducing risk by eliminating the need for manual inspections in hazardous areas.

Efficiency

Fast deployment and comprehensive data collection for actionable insights.

Compliance

Helping utilities meet stringent EPA and regulatory standards.

Expertise

Industry-leading solutions backed by decades of utility field services experience.

Your Trusted Utility Partner

Sparus Holdings provides world-class utility field services and infrastructure technology solutions. Our advanced drone technology enhances asset monitoring, optimizes operations, and ensures regulatory compliance while improving safety and efficiency. We partner with our clients to deliver superior results through innovative, data-driven solutions.

Stay Connected with Sparus!

Follow us for the latest in utility innovation and field service solutions.



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